Types and Literals Solutions

Copyright © James Raynard 2021

Integers

- List the four main integer types in C++11
  - char
  - int
  - long
  - long long
- Write a program which displays the number of bytes each type occupies in memory

Copyright © James Raynard 2021

Fixed-width integers

- Write a program which displays the number of bytes each fixed-width integer type occupies in memory

Copyright © James Raynard 2021

Raw String Literals

- Without adding any extra backslashes, create a string variable which contains the following characters:

  C:\Program Files\\n

- Write a program which prints out the string's data. Check that it is displayed correctly
- Repeat this with the following characters:

  C:\Program Files (x86)\\n

Copyright © James Raynard 2021

Numeric Literals

- Write a program that uses numeric literals with a digit separator and prints them out
- Write a program that creates a binary literal and prints it out

Copyright © James Raynard 2021

String literals

- Write a program that creates an std::string literal and prints it out
- Demonstrate that std::string operations can be performed on an std::string literal

Copyright © James Raynard 2021